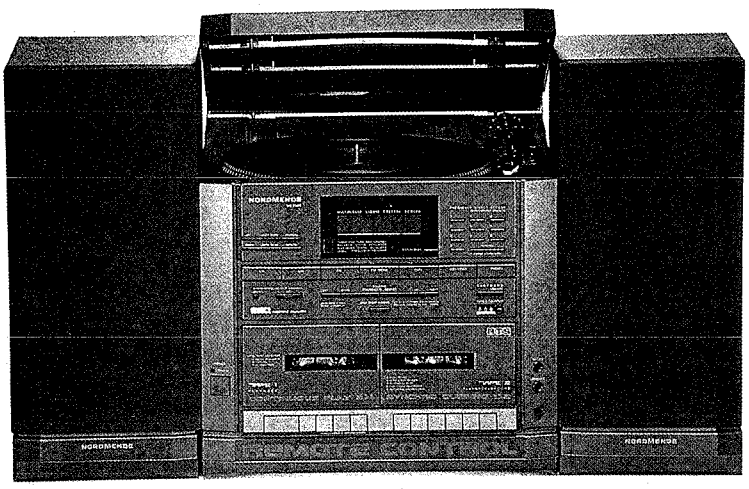
TECHNISCHER KUNDENDIENST

Service-Information



MS 3002
989.131 H

TECHNICAL DATA – CARACTERISTIQUES PRINCIPALES
TECHNISCHE DATEN – CARACTERISTICAS DEL APARATO – DATI TECNICI

Type of set : **Type d'appareil :** **Geräteart :** **Tipo de aparato :** **Tipo d'apparatecchio :**	Two-in-one horizontal, combination Ensemble compact stéréophonique 2er Horizontal Kompaktanlage Equipo compacto estereofónico Insieme compacto stereofonico
↔ 355 mm ↕ 350 mm ↗ 340 mm	6,8kg
Power supply and consumption : **Alimentation et consommation :** **Stromversorgung und Leistungsaufnahme :** **Alimentación y consumo :** **Alimentazione e consumo :**	220 V 70 W
Nominal output power : **Puissance nominale de sortie :** **Nennausgangsleistung :** **Potencia nominal de salida :** **Potenzia nominale di uscita :**	2 x 10 W f = 1 kHz; d = 10 %
	Zs = 4 Ω
FM - MF : 87,5 - 108 MHz **MW - PO :** 522 - 1620 kHz **LW - GO :** 150 - 283 kHz	**FM - FI :** 10,7 MHz **AM - FI :** 450 kHz
Sensitivity : **Sensibilité :** **Empfindlichkeit :** **Sensibilidad :** **Sensibilità :**	**LW - GO :** 2 µV (S/N = 20 dB) **MW - PO :** 2 µV (S/N = 20 dB) **FM - MF :** 2 µV (S/N = 26 dB) ▽ **FM - MF :** 50 µV (S/N = 46 dB) ⊙⊙
Frequency response : **Courbe de réponse :** **Frequenzgang :** **Curva de respuesta :** **Curva di risposta :**	60 Hz - 10 kHz
Stereo separation : **Diaphonie :** **Übersprechdämpfung :** **Diafonía :** **Diafonia :**	30 dB
Frequency response : **Courbe de réponse :** **Frequenzgang :** **Curva de respuesta :** **Curva di risposta :**	250 Hz - 10 kHz
Signal to noise ratio : **Rapport signal/bruit :** **Geräuschspannungsabstand :** **Relación senal/ruido :** **Rapporto segnale/disturbo :**	78 dB
Wow and flutter : **Fluctuations :** **Gleichlauf :** **Fluctuaciones :** **Fluttuazioni :**	0,3 %
→ 4,75 cm/s	→→ 7,13 cm/s
<< ▶▶ >>	<< ◀◀ >> C60 : 170 s

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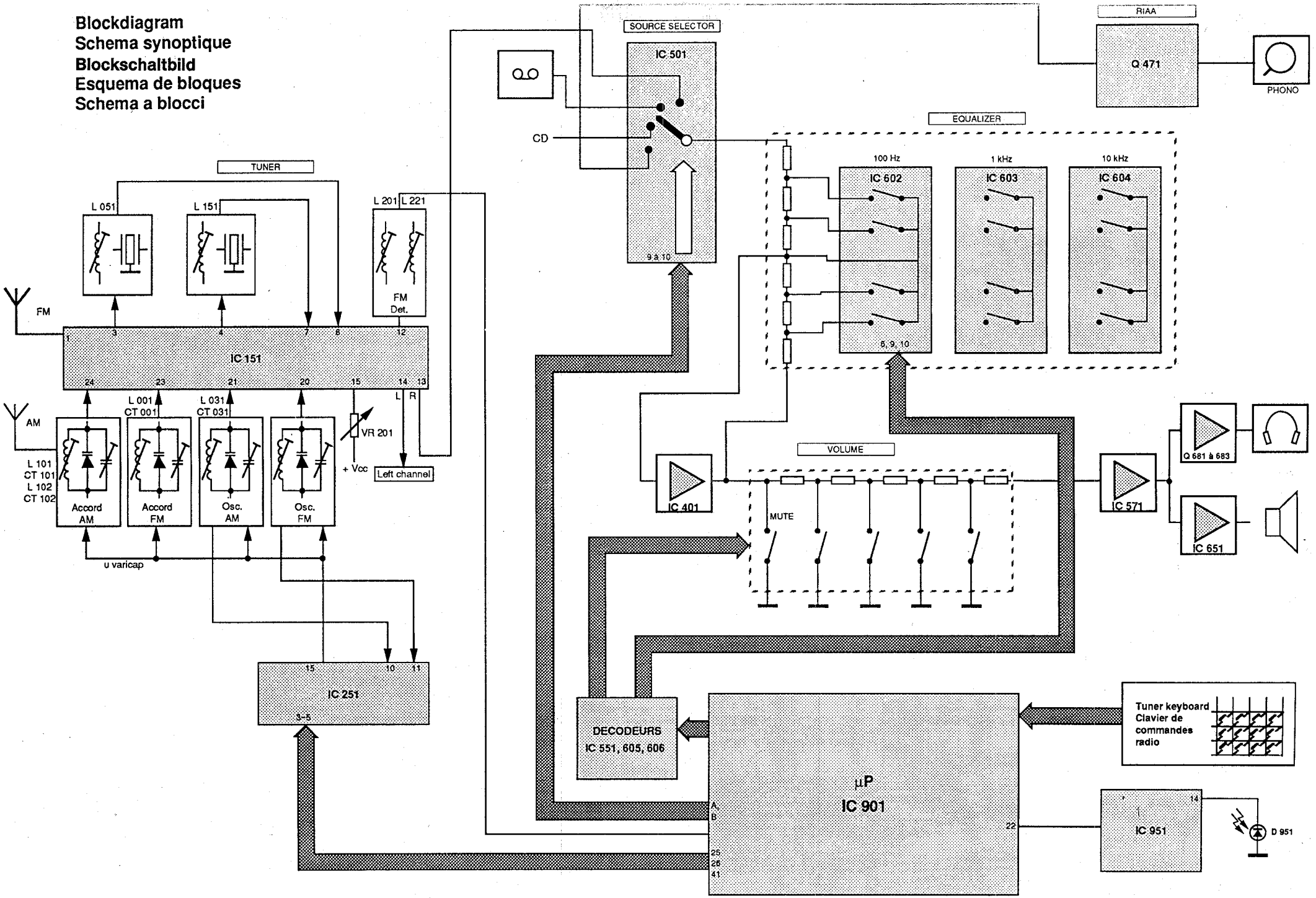
BTX-BESTELLSERVICE ✳ 458518 #

NORDMENDE

These instructions are for service dealers only Subject to modification . Ces indications et instructions sont destinées exclusivement au service du commerce spécialisé. ModificationsréservéesDiese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt . Änderungen vorbehalten . Estos datos e instrucciones son destinados exclusivamente al servicio técnico del revendedor . Salvo modificación . Questi dati e queste istruzioni sono riservati ai tecnici del servizio assistenza. Con riserva di modifiche.

Blockdiagram
Schema synoptique
Blockschaltbild
Esquema de bloques
Schema a blocci



ADJUSTMENTS - REGLAGES - ABGLEICH - AJUSTES - REGOLAZIONE

AM alignment

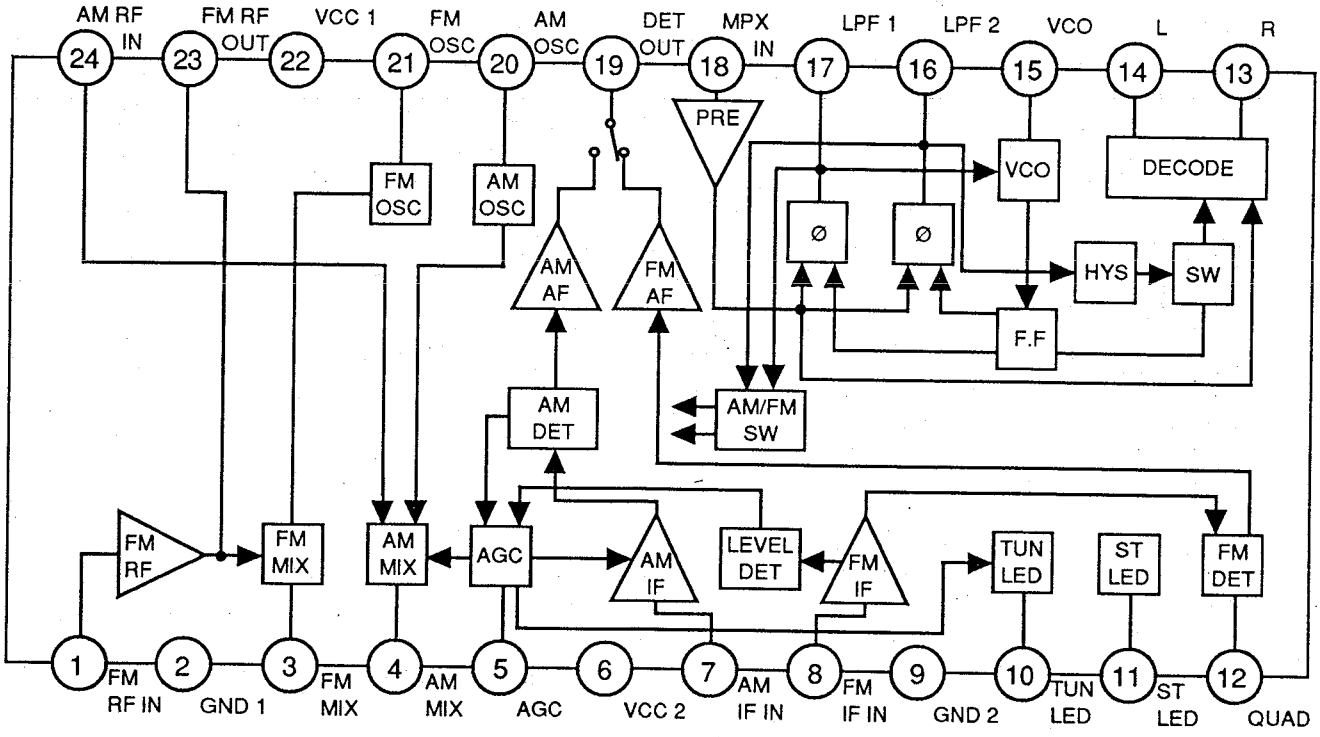
	Gf	f	455 KHZ		
FI	10 nF — TP 11	450 kHz		L 151	TP 21L — 1 µF — max
MW	TP 01	522 kHz	522 kHz		TP 26 — 0,8 V ~ 2,0 V
		1620 kHz	1620 kHz		TP 26 — 6,5 V ~ 8,5 V
		621 kHz	621 kHz	L 101	TP 26 — max
		1404 kHz	1404 kHz	CT 101	
LW	TP 01	150 kHz	150 kHz		TP 26 — 0,8 V ~ 2,0 V
		283 kHz	283 kHz		TP 26 — 4,5 V ~ 5,5 V
		170 kHz	170 kHz	L 102	TP 26 — max
		270 kHz	270 kHz	CT 102	

FM alignment

	Gf	f	18888 KHZ		Hz
FI	5 pF — TP 05	10,7 MHz		L 051	TP19 — 4,7 nF — 10,7 MHz symétrie
				L 201	max
Stop	Auto Scan			L 221	18888 KHZ Stop
Osc	TP 01	87,5 MHz	87,5 MHz	L 031	TP 26 — 1,3 V ± 0,2 V
		108 MHz	108 MHz	CT 031	TP 26 — 7,5 V ± 0,2 V
		90 MHz	90 MHz	L 001	TP 26 — max
		106 MHz	106 MHz	CT 001	
◯◯				VR 201	TP 20 — 76 kHz

ADJUSTMENTS - REGLAGES - ABGLEICH - AJUSTES - REGOLAZIONE

Azimuth adjustment Réglage d'azimuth Tonkopfeinstellung Ajuste de azimut Regolazione di azimut	TEST 12,5 kHz	R L	φR = φL R L
Tape speed Vitesse de défilement Bandgeschwindigkeit Velocidad de la cinta Velocita del nastro	TEST 3 kHz	VR 831 Hz	f = 3 kHz
Bias adjustment Courant de prémagnétisation Vormagnetisierung Corriente de premagnetizacion Corrente di premagnetizzazione	9 10 WG 02	0 V TP 38 13 V TP 38 VR 371 TP 37 Hz V	f = 65 kHz ± 5 kHz v = 15 V f = 65 kHz ± 5 kHz v = 10 V



NORDMENDE

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TP01
TP05
TP11
TP19
TP21L
TP26
TP37
TP38
IC151 TAB127N
IC251 LM7001
IC351 1/2 AN7310
IC401 1/2 4551
IC821 4011
TAPE2 PB AMP
TAPE 2 REC AMP
BIAS OSC
MIC AMP
TAPE1 PB AMP
TAPE1 VCC (12V)
TAPE2 12V
VCC4 13V
MIC VCC
STOP SIGNAL
TAPE OUT (L)
MD01 FM/AM ANT
MD02 AM ANT
ML02
MR02
MF02
MS15PAC2
MW02
MJ02
TAPE 1 (L)
TAPE 1 (R)
TAPE 2 (L)
TAPE 2 (R)
NM1-8K2L16SK (12V)
BROWN
RED
ORANGE
YELLOW
GREEN
BLUE
PURPLE
TAPE 1 TYPE
TAPE 2 TYPE

SOURCE SELECTOR (L)

IC501 1/2 4052

IC601 1/2 4560

VOLUME (L)

IC571 1/2 4560

SOURCE SELETOR (R)

IC501
1/2 4052

IC601 1/2 4560

VOLUME (R)

IC571 1/2 4560

IC602
1/2 4052

IC603
1/2 4052

IC604
1/2 4052

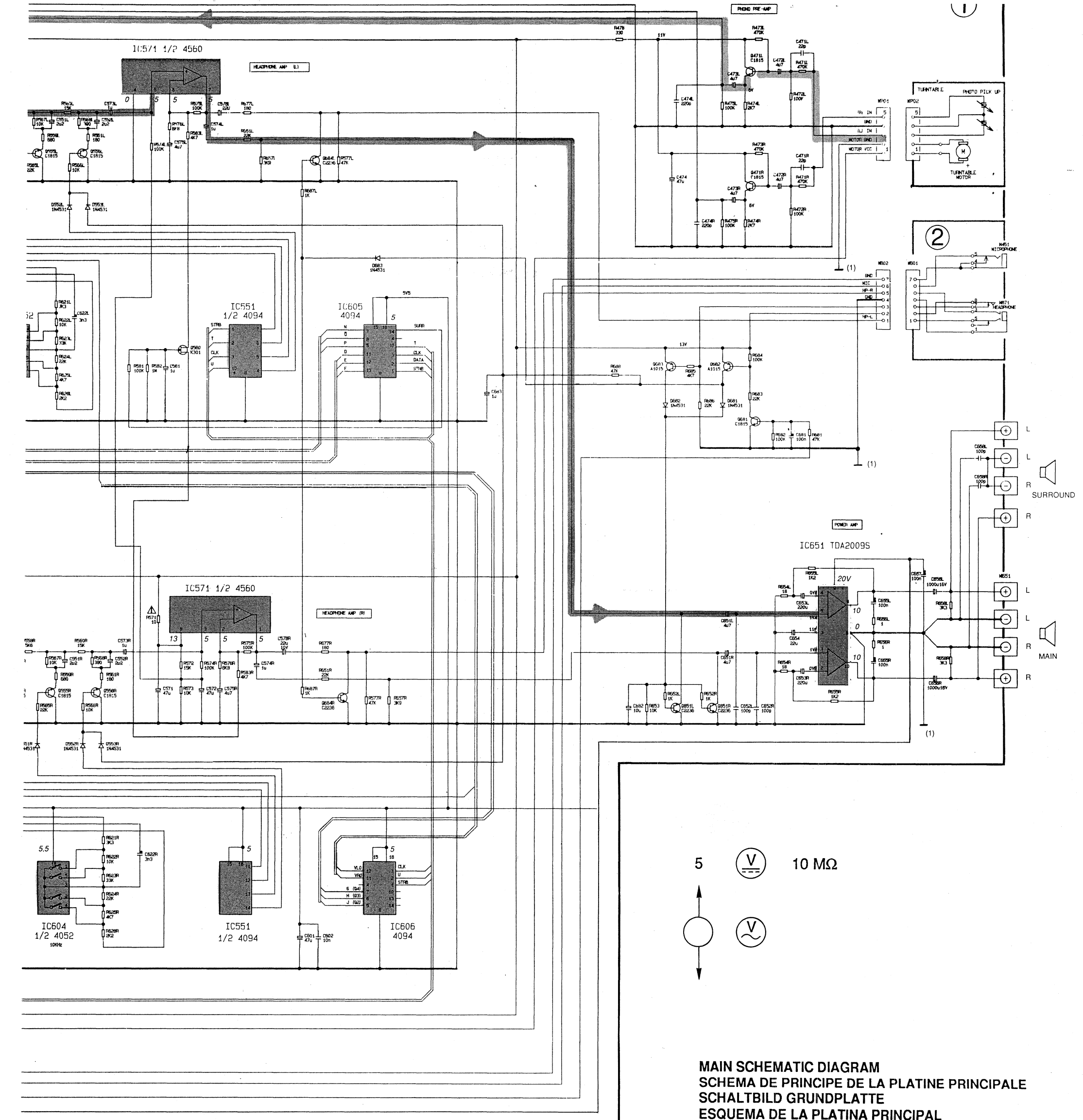
IC551
1/2 4094

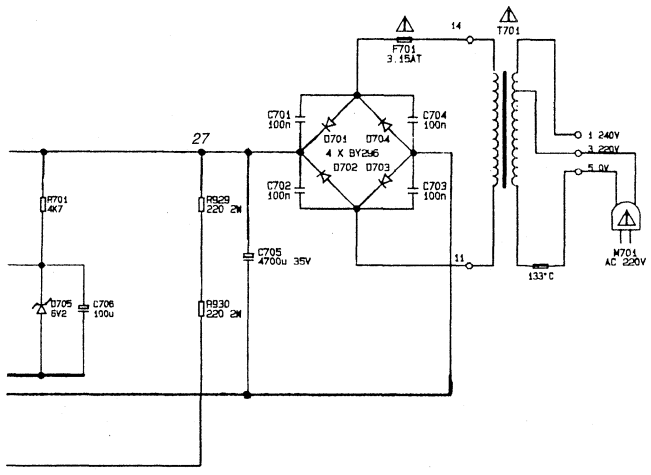
POWER SUPPLY

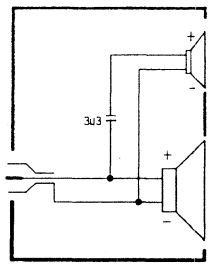
TP21L

LM7001

MN02





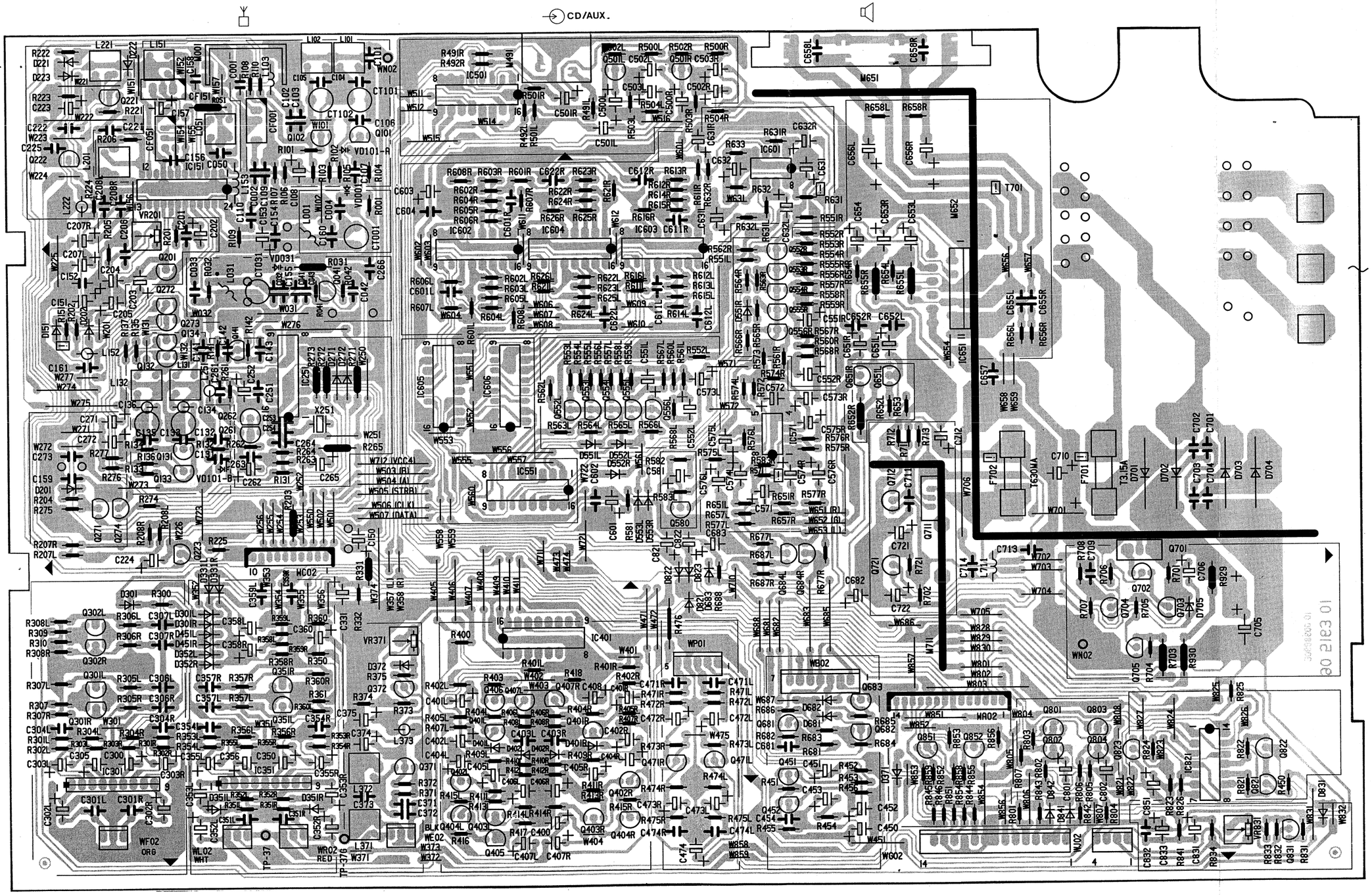


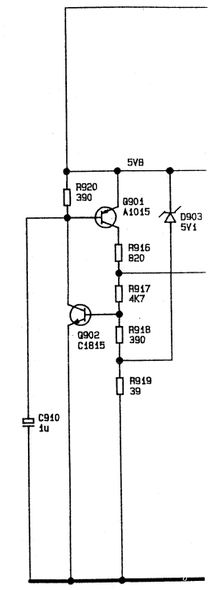
IC151	AM	IC151	AM
1	0	13	1
2	0	14	1
3	4,5	15	3,8
4	4,5	16	5
5	1,6	17	4,5
6	4,5	18	0,6
7	4,5	19	1,1
8	4,5	20	4,5
9	0	21	4,5
10	0	22	4,5
11	0	23	4,5
12	4,5	24	4,5

IC251	AM
1	1
2	1,6
3	0
4	0
5	0
6	0
7	6,6
8	0
9	5,1
10	1,7
11	0
12	5,5
13	5,5
14	1,1
15	1,1
16	0

MAIN SCHEMATIC DIAGRAM
SCHEMA DE PRINCIPE DE LA PLATINE PRINCIPALE
SCHALTBILD GRUNDPLATTE
ESQUEMA DE LA PLATINA PRINCIPAL
SCHEMA DELLA PIASTRA PRINCIPALE

CONTROL / DISPLAY
BEDIENTEILPLATTE -

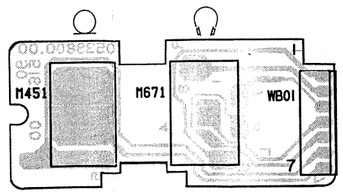




Main P.C.B.
Platine principale
Grundplatte
Platina principal
Piastra principale

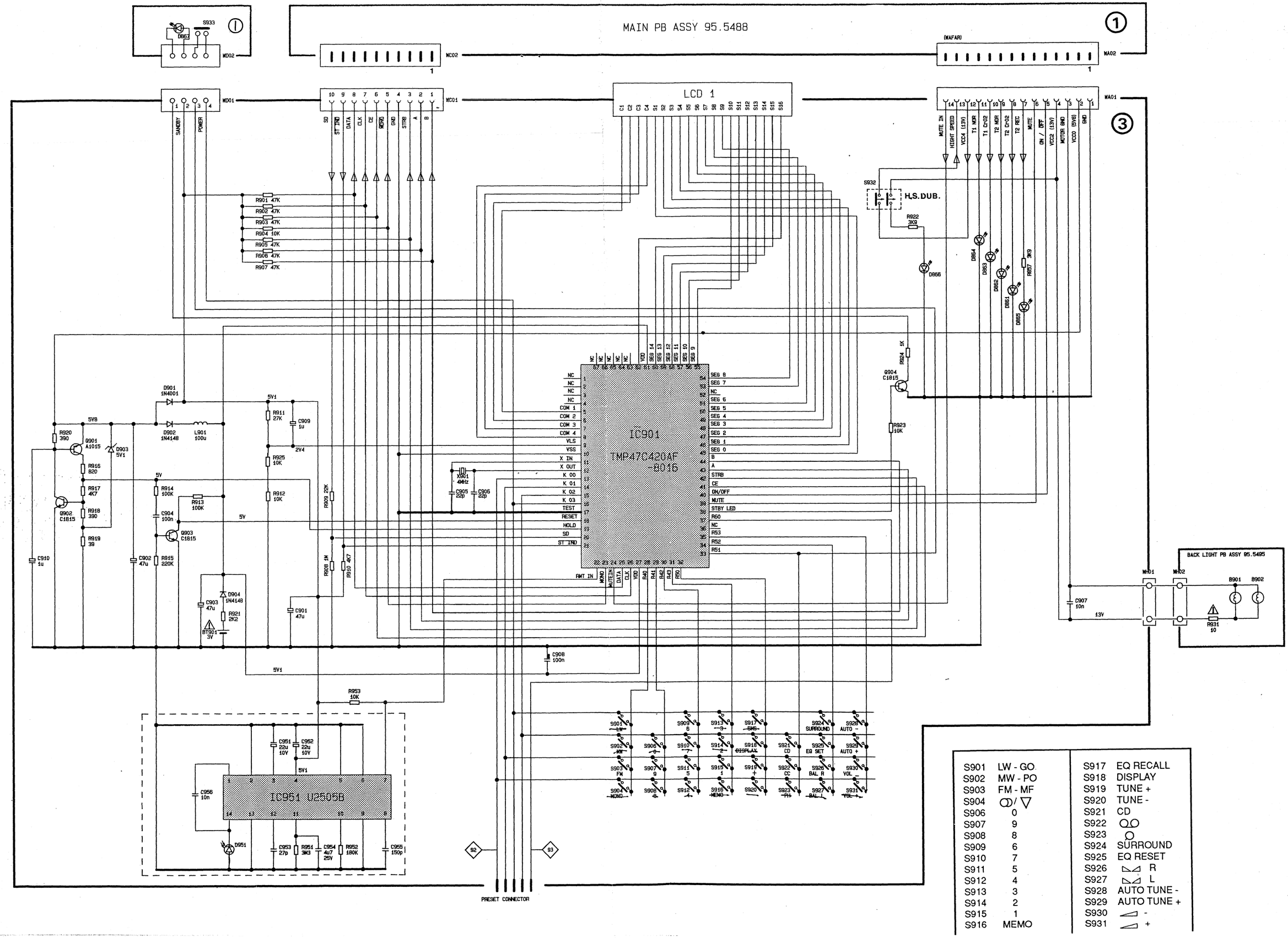
Component side
Côté composants
Bestückungsseite
Lado componentes
Lato componenti

Headphone-jack / micro-jack P.C.B.
Platine prise-casque / prise micro
Ltpl. Kopfhörer-/Mikrofonbuchse
Platina toma auriculares / toma micrófono
Piastra prese cuffia / prese microfoni

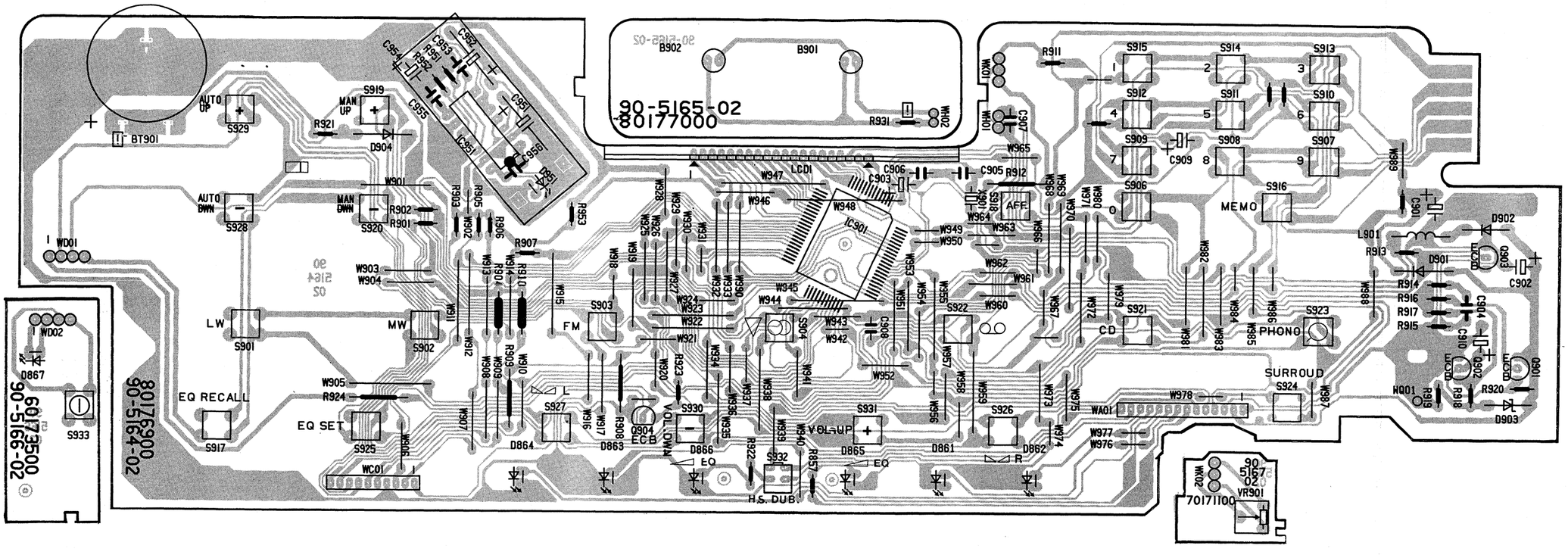


Control / display P.C.B.
Platine commandes / affichages

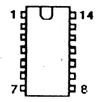
CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE DES CIRCUITS DE COMMANDES / AFFICHEUR - SCHALTBILD ANZEIGE / BEDIENTEILPLATTE - ESQUEMA DE LOS CIRCUITOS DE MANDOS / INDICADOR - SCHEMA DI COMANDI / INDICATORE



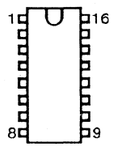
Bedienteil- / Anzeige-Ltpl.
Platina de mandos / indicadores
Piastra comandi / indicatore



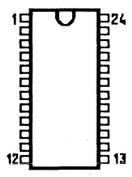
NJM 4560 D



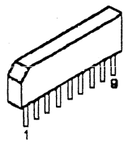
TC 4011 BP
U 2505 B



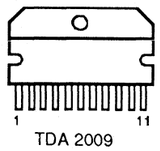
LM 7001
MC 14551 BCP
MC 14094 BCP
TC 4052 BP



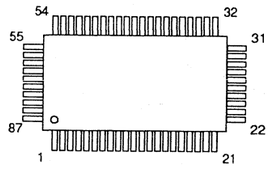
TA 8127 N



AN 7310



TDA 2009

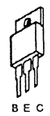


TMP47C420AF

2 SK 301 NTA

2 SK 83-R2

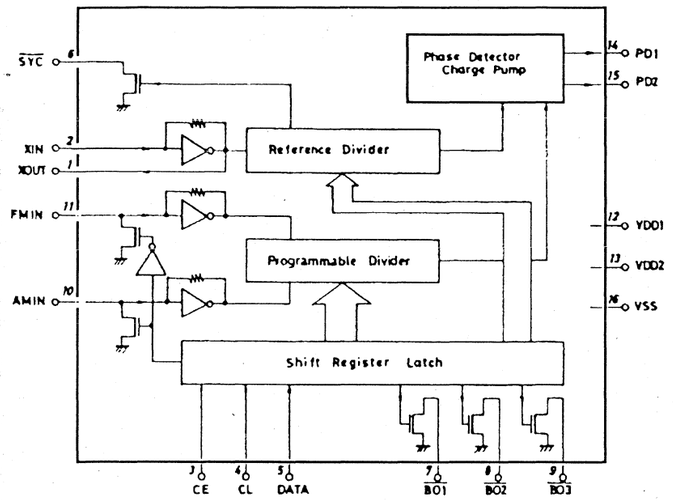
2 SC 1923
2 SC 1815 GR
2 SA 950 Y
2 SA 1015 GR
2 SC 2236 Y



TIP 32 A

BD 23316 A

LM 7001



NJM 4560 D